

SHIELDING APPARATUS FOR MAGNETIC RESONANCE IMAGING

Abstract

An apparatus for MRI having an RF birdcage coil and an RF shield is disclosed. The RF birdcage coil includes a coil axis, an end ring portion disposed about the axis, and a plurality of legs disposed parallel to the axis and in signal communication with the end ring portion. The RF shield is disposed about the coil and is in signal communication therewith. The shield includes a cylindrical conductive sheet having first and second ends, and a plurality of sets of discontinuous slots disposed about the cylindrical sheet and running between the first and second ends, wherein a region of discontinuity within a set of the slots is aligned with the end ring portion.